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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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Kang Soo Seo

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EXAMINER

JONES, HEATHER RAE

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2621

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PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

<b>Office Action Summary</b>	<b>Application No.</b> 10/602,880	<b>Applicant(s)</b> SEO ET AL.	
	<b>Examiner</b> HEATHER R. JONES	<b>Art Unit</b> 2621	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 18 August 2008.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1,2,6,7,9,16-26,29,30,32,33,35 and 37-43 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1,2,6,7,9,16-26,29,30,32,33,35 and 37-43 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 25 June 2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some \* c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)            | 4) <input type="checkbox"/> Interview Summary (PTO-413)           |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)   | Paper No(s)/Mail Date. _____                                      |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date  | 6) <input type="checkbox"/> Other: _____                          |

4/24/08, 5/21/08, 6/20/08, 7/22/08, 8/18/08, 9/10/08, 11/10/08.



## **DETAILED ACTION**

### ***Response to Arguments***

1. Applicant's arguments filed August 18, 2008 have been fully considered but they are not persuasive.

The Applicant argues on page 11, lines 12-21 that Sato et al. fails to disclose "a playlist file for identifying a portion of the multiple playback path video data and at least a portion of the playlist files associated with different playback paths". The Examiner respectfully disagrees. Sato et al. discloses in Fig. 21 and in col. 32, line 56 - col.33, line 63 multi-scene scenarios along with the play list files (program chains) that correspond to each scenario. As can be seen in Fig. 21 scenarios 1 and 2 both include scenes 1, 5, and 8 along with the selection of the angle with the corresponding clip and the selection of scene 6 or 7 depending on the parental locked scenes. The program chains can also be seen in Fig. 30 for scenarios 1 and 2. Therefore, Sato et al. meets the claimed limitation of a playlist file for identifying a portion of the multiple playback path video data and at least a portion of the playlist files associated with different playback paths by the program chain selecting a scene as part of the multiple playback path and wherein only certain program chains will access scene 6 while the other ones will access scene 7 and the rejection is maintained.

The Applicant argues on page 11, line 22 – page 12, line 7 that Sato et al. fails to disclose "a map for the associated clip file, the map containing presentation time information corresponding to address information for the

Art Unit: 2621

associated clip file". The Examiner respectfully disagrees. Sato et al. discloses in col. 20, lines 22-56 management tables (maps) that store the addresses of the associated clips and other information about the program chains. Amongst the different tables one table specifically titled the VTSPGC information table includes an entry VTS\_PGCI #i. For each of the table entries VTS\_PGCI #i is a data entry expressing the program chain, and comprises j cell playback information blocks C\_PBI #1 - C\_PBI #j, wherein each cell playback information block C\_PBI #j contains the playback sequence of the cell and playback control information which includes cell presentation time for that particular cell (col. 21, lines 20-31 and col. 22, lines 11-12). Furthermore, that particular cell's address is also disclosed in the tables. Therefore, Sato et al. meets the claimed limitations and the rejection is maintained.

### ***Claim Rejections - 35 USC § 102***

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

3. Claims 1, 2, 6, 7, 9, 16-26, 29, 30, 32, 33, 35, and 37-43 are rejected under 35 U.S.C. 102(b) as being anticipated by Sato et al. (U.S. Patent 5,884,004).

Regarding claim 1, Sato et al. discloses a computer readable medium having a data structure for managing reproduction of multiple playback path

Art Unit: 2621

video data of a title, comprising: a playlist directory area for storing a playlist directory including a plurality of playlist files (col. 6, lines 60-64; col. 20, lines 22-56; col. 21, lines 12-15), each playlist file for identifying a portion of the multiple playback path video data and at least a portion of the playlist files associated with different playback paths and the playlist file for storing navigation information at least providing information on one playback path, the playlist file including information indicating order of reproduction (Figs. 18, 20-24, and 30; col. 20, lines 23-56; col. 21, lines 12-19; col. 22, lines 23-33); a data area for storing at least one clip file of the multiple playback path video data (col. 6, lines 65-67); and a management area storing management information for managing reproduction of the multiple playback path video data, the management information including an information file associated with each clip, each information file providing a map for the associated clip file, the map containing presentation time information corresponding to address information for the associated clip file (Figs. 20-24, 49, and 50; col. 6, lines 60-64; col. 20, lines 22-56 - management tables (maps) store the addresses of the associated clips).

Regarding claim **2**, Sato et al. discloses all limitations as previously discussed with respect to claim 1 including that a group of playlist files is associated with each playback path (Figs. 20-24 – shows different playback paths).

Regarding claim **6**, Sato et al. discloses all limitations as previously discussed with respect to claim 1 including that the navigation information at

least provides information for linking one playlist file to another playlist file in the same playback path (Figs. 20-24; col. 20, lines 23-56).

Regarding claim **7**, Sato et al. discloses all limitations as previously discussed with respect to claims 1 and 6 including that the different playback paths are related to different stories (Fig. 21 - different scenarios).

Regarding claim **9**, Sato et al. discloses all limitations as previously discussed with respect to claim 1 including that the data area stores a plurality of clip files of the multiple playback path video data, and the video data for each playback path is stored in a different clip file (col. 6, lines 60-65).

Regarding claim **16**, Sato et al. discloses a method of reproducing multiple playback path video data from a recording medium, comprising:  
receiving user input selecting one of playback paths (col. 32, line 56 – col. 33, line 16); reproducing at least one playlist file associated with the selected playback path based on navigation information recorded on the recording medium, the playlist file including information indicating order of reproduction (Figs. 18, 20-24, and 30; col. 21, lines 12-19; col. 22, lines 23-33); producing at least one clip file of the multiple playback path video data from the recording medium (col. 32, line 56 - col. 33, line 16); and reproducing management information for managing reproduction of the multiple playback path video data from a management area of the recording medium, the management information including an information file associated with each clip, each information file providing a map for the associated clip file, the map containing presentation time

Art Unit: 2621

information corresponding to address information for the associated clip file (Figs. 20-24, 49, and 50; col. 6, lines 60-64; col. 20, lines 22-56 - management tables (maps) store the addresses of the associated clips).

Regarding claim **17**, Sato et al. discloses all limitations as previously discussed with respect to claim 16 including that the reproducing step reproduces a group of playlist files based on the navigation information (col. 32, line 56 - col. 33, line 16).

Regarding claim **18**, Sato et al. discloses a method of recording a data structure for managing reproduction of at least video data on a recording medium, comprising: recording a playlist directory including a plurality of playlist files in a playlist directory area of the recording medium (col. 6, lines 60-64; col. 20, lines 22-56; col. 21, lines 12-15), each playlist file for identifying a portion of multiple playback path video data and at least a portion of the playlist files associated with different playback paths, and including navigation information in the playlist file, the navigation information at least providing information on one playback path, the playlist file including information indicating order of reproduction (Figs. 18, 20-24, and 30; col. 21, lines 12-19; col. 22, lines 23-33); recording at least one clip file of the multiple playback path video data in a data area of the recording medium (col. 6, lines 60-65); and recording management information for managing reproduction of the multiple playback path video data in a management area of the recording medium, the management information including an information file associated with each clip, each information file



providing a map for the associated clip file, the map containing presentation time information corresponding to address information for the associated clip file (Figs. 20-24, 49, and 50; col. 6, lines 60-64; col. 20, lines 22-56 - management tables (maps) store the addresses of the associated clips).

Regarding claim **19**, Sato et al. discloses a method of reproducing a data structure for managing reproduction of at least video data, comprising: reproducing navigation information from at least one playlist directory area of the recording medium, the navigation information at least providing information on one playback path (Figs. 18, 20-24, and 30; col. 6, lines 60-64; col. 20, lines 22-56; col. 21, lines 12-19; col. 22, lines 23-33); and reproducing at least one playlist file in the playlist directory area of the recording medium based on the navigation information, each playlist file for identifying a portion of multiple playback path video data and at least a portion of the playlist files associated with different playback paths and for reproducing at least one clip file of the multiple playback path video data from the recording medium, the playlist file including information indicating order of reproduction (col. 6, lines 60-65; col. 20, lines 23-56; col. 32, line 56 - col. 33, line 16); and reproducing management information for managing reproduction of the multiple playback path video data from a management area of the recording medium, the management information including an information file associated with each clip, each information file providing a map for the associated clip file, the map containing presentation time information corresponding to address information for the associated clip file (Figs. 20-24, 49,

and 50; col. 6, lines 60-64; col. 20, lines 22-56 - management tables (maps) store the addresses of the associated clips).

Regarding claim **20**, Sato et al. discloses an apparatus for recording a data structure for managing reproduction of at least video data, comprising: an optical recording unit (1200) configured to record data on a recording medium (Fig. 2); an encoder (900) configured to encode at least video data (Fig. 2); and a controller (200 and 1200), operably coupled to the optical recording unit, configured to control the optical recording unit to record at least one clip file of the encoded video data in a data area on the recording medium, the controller configured to control the optical recording device to record a playlist directory including a plurality of playlist files and navigation information in a playlist directory area of the recording medium, each playlist file for identifying a portion of multiple playback path video data and at least a portion of the playlist files associated with different playback paths, the navigation information at least providing information on one playback path, the controller configured to control the optical recording unit to record management information for managing reproduction of the encoded video data in a management area of the recording medium (Figs. 18, 20-24, and 30; col. 6, lines 60-64; col. 20, lines 22-56; col. 21, lines 12-19; col. 22, lines 23-33), the management information including an information file associated with each clip, each information file providing a map for the associated clip file, the map containing presentation time information corresponding to address information for the associated clip file (col. 22, lines 11-

Art Unit: 2621

12), the playlist file including information indicating order of production (Figs. 20-24, 49, and 50; col. 6, lines 60-64; col. 20, lines 22-56 - management tables (maps) store the addresses of the associated clips).

Regarding claim **21**, Sato et al. discloses an apparatus for reproducing a data structure for managing reproduction of at least video data, comprising: an optical reproducing unit (2004) configured to reproduce data recorded on a recording medium (Fig. 3); and a controller (2002), operably coupled to the optical reproducing unit, configured to control the optical reproducing unit to reproduce navigation information from at least one playlist file of the recording medium (Fig. 2), and control the optical reproducing unit to reproduce at least one playlist file in a playlist directory area of the recording medium based on the navigation information (Figs. 18, 20-24, and 30; col. 6, lines 60-64; col. 20, lines 22-56; col. 21, lines 12-19; col. 22, lines 23-33), the navigation information at least providing information on one playback path, each playlist file for identifying a portion of multiple playback path video data and at least a portion of the playlist files associated with different playback paths, the playlist file including information indicating order of reproduction (Figs. 18, 20-24, and 30; col. 20, lines 23-53; col. 21, lines 12-19; col. 22, lines 23-33); the controller configured to control the optical reproducing device to reproduce at least one clip file of the at least video data from a data area of the recording medium (col. 6, lines 60-65; col. 32, line 56 - col. 33, line 16); the controller configured to control the optical reproducing unit to reproduce management information for managing

Art Unit: 2621

reproduction of the at least video data in a management area of the recording medium, the management information including an information file associated with each clip, each information file providing a map for the associated clip file, the map containing presentation time information corresponding to address information for the associated clip file (Figs. 20-24, 49, and 50; col. 6, lines 60-64; col. 20, lines 22-56 - management tables (maps) store the addresses of the associated clips).

Regarding claim **22**, Sato et al. discloses all limitations as previously discussed with respect to claim 20 including the multiple playback path video data are represented by packets; and the map maps presentation time stamps to packet addresses (Figs. 20-24, 49, and 50; col. 6, lines 60-64; col. 20, lines 22-56; col. 22, lines 11-12 - management tables (maps) store the addresses of the associated clips).

Regarding claim **23**, Sato et al. discloses all limitations as previously discussed with respect to claim 20 including that a group of playlist files is associated with each playback path (Figs. 20-24 – shows different playback paths).

Regarding claim **24**, Sato et al. discloses all limitations as previously discussed with respect to claims 20 and 23 including that the navigation information at least provides information for linking one playlist file to another playlist file in the same playback path (Figs. 20-24; col. 20, lines 23-56).

Regarding claim **25**, Sato et al. discloses all limitations as previously discussed with respect to claim 21 including that a group of playlist files is associated with each playback path (Figs. 20-24 – shows different playback paths).

Regarding claim **26**, Sato et al. discloses all limitations as previously discussed with respect to claims 21 and 25 including that the navigation information at least provides information for linking one playlist file to another playlist file in the same playback path (Figs. 20-24; col. 20, lines 23-56).

Regarding claim **29**, Sato et al. discloses all limitations as previously discussed with respect to claim 16 including that the navigation information at least provides information for linking one playlist file to another playlist file in the same playback path (Figs. 20-24; col. 20, lines 23-56).

Regarding claim **30**, Sato et al. discloses all limitations as previously discussed with respect to claim 18 including that recording the playlist directory includes recording a group of playlist files based on the navigation information (col. 6, lines 60-67; col. 20, lines 22-56; col. 21, lines 12-15).

Regarding claim **32**, Sato et al. discloses all limitations as previously discussed with respect to claim 18 including that recording the playlist directory includes recording the navigation information to at least provide information for linking one playlist file to another playlist file in the same playback path (Figs. 20-24; col. 20, lines 23-56).

Regarding claim **33**, Sato et al. discloses all limitations as previously discussed with respect to claim 19 including that the reproducing the at least one playlist file includes reproducing a group of playlist files based on the navigation information (col. 6, lines 60-67; col. 20, lines 22-56; col. 21, lines 12-15).

Regarding claim **35**, Sato et al. discloses all limitations as previously discussed with respect to claim 19 including that the navigation information at least provides information for linking one playlist file to another playlist file in the same playback path (Figs. 20-24; col. 20, lines 23-56).

Regarding claim **37**, Sato et al. discloses all limitations as previously discussed with respect to claim 1 including that the at least one clip file is linked to more than one of the plurality of playlist files (Fig. 21).

Regarding claim **38**, Sato et al. discloses all the limitations as previously discussed with respect to claim 1 including that the navigation information at least provides information linking one playitem to another playitem in the same playback path (Figs. 20-24; col. 20, lines 23-56).

Regarding claims **39, 40, 42, and 43**, grounds for rejecting claim 38 applies for claims 39, 40, 42, and 43 in their entireties.

Regarding claim **41**, Sato et al. discloses all the limitations as previously discussed with respect to claim 1 including that the navigation information at least provides information linking one playitem to another playitem in the same playback list (Figs. 20-24; col. 20, lines 23-56).

***Conclusion***

4. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to **HEATHER R. JONES** whose telephone number is (571)272-7368. The examiner can normally be reached on Mon. - Thurs.: 7:00 am - 4:30 pm, and every other Fri.: 7:00 am - 3:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thai Tran can be reached on 571-272-7382. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 2621

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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Art Unit 2621

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